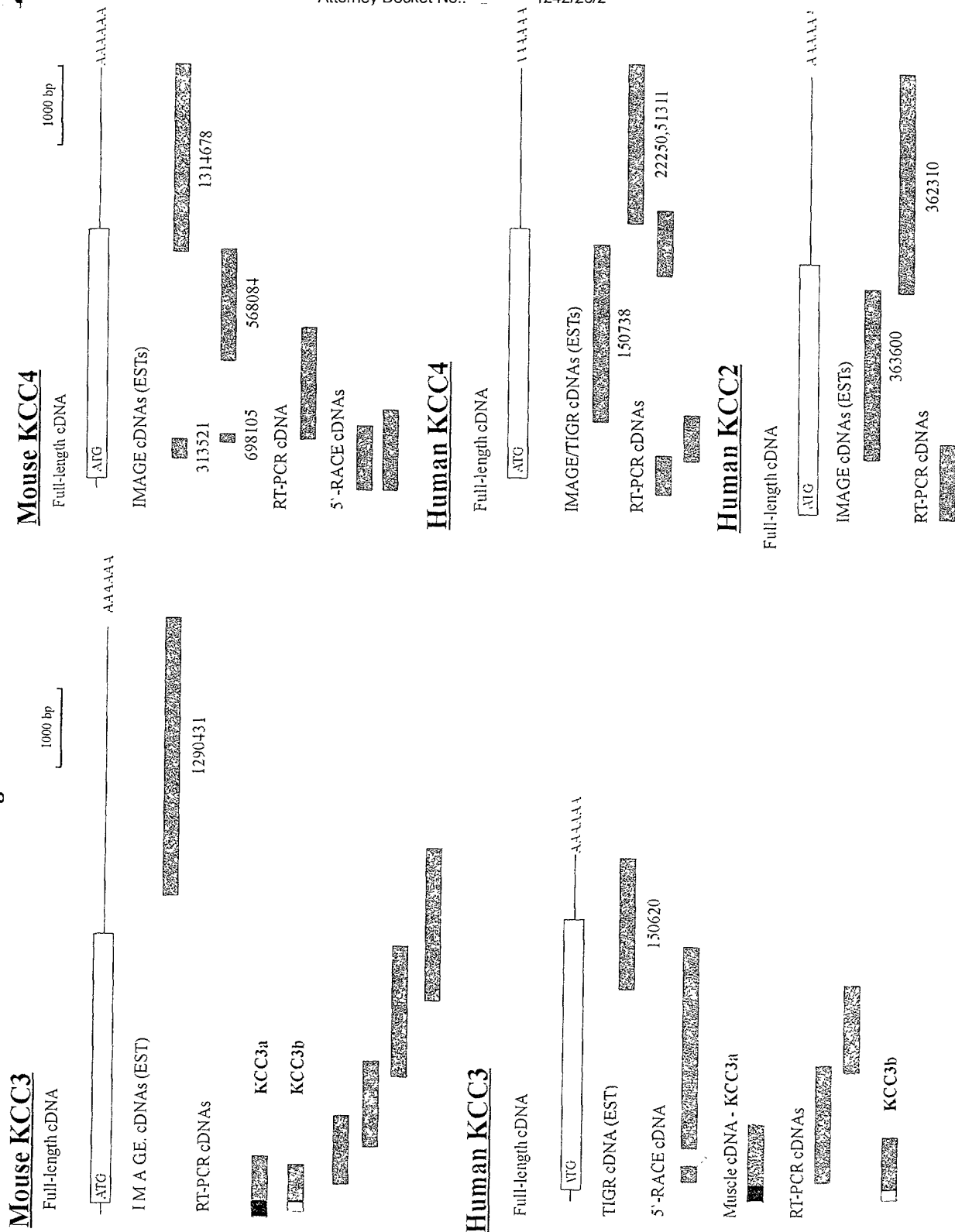


Figure 1

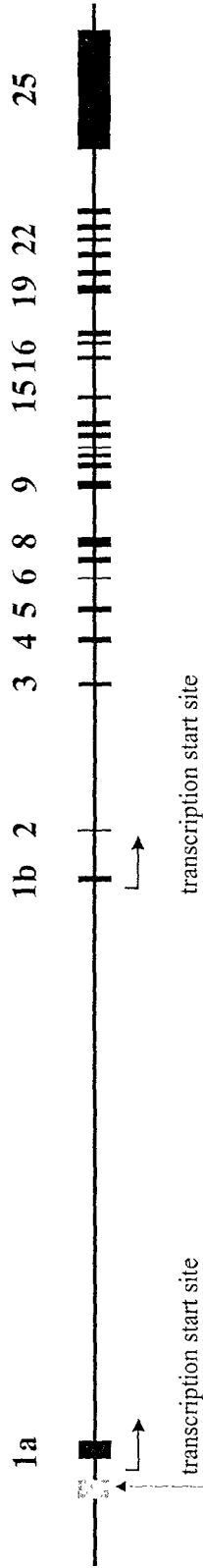


FOOTNOTES

Figure 2

A) *hKCC3*

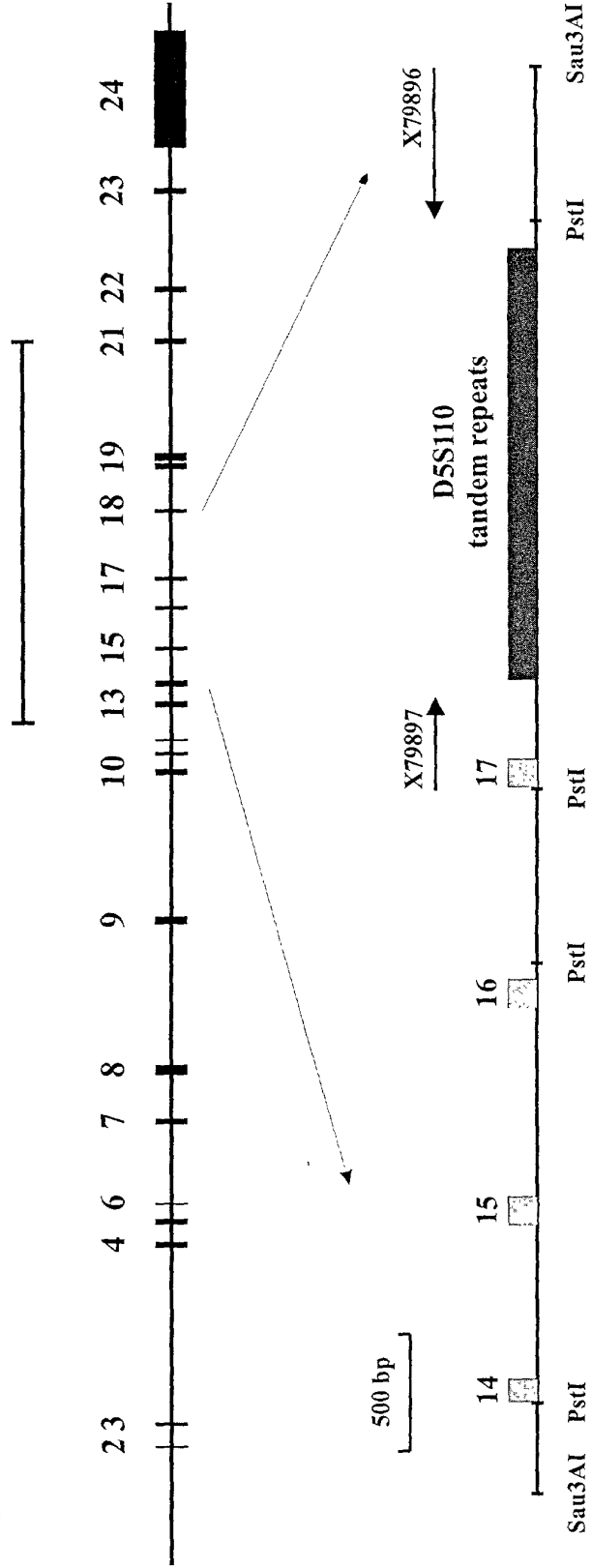
10 kb



CpG island

B) *hKCC4*

10 kb



pMS621 genomic clone

Figure 3

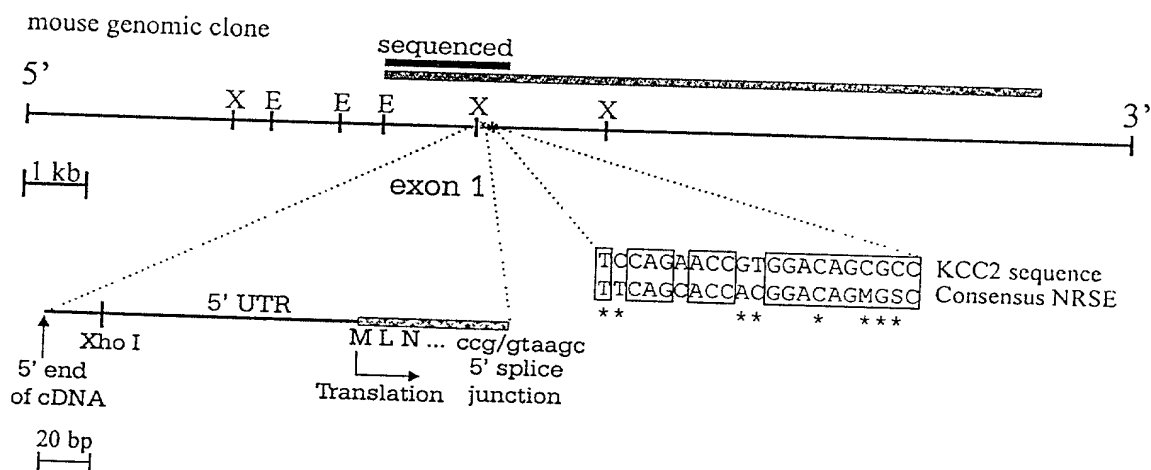
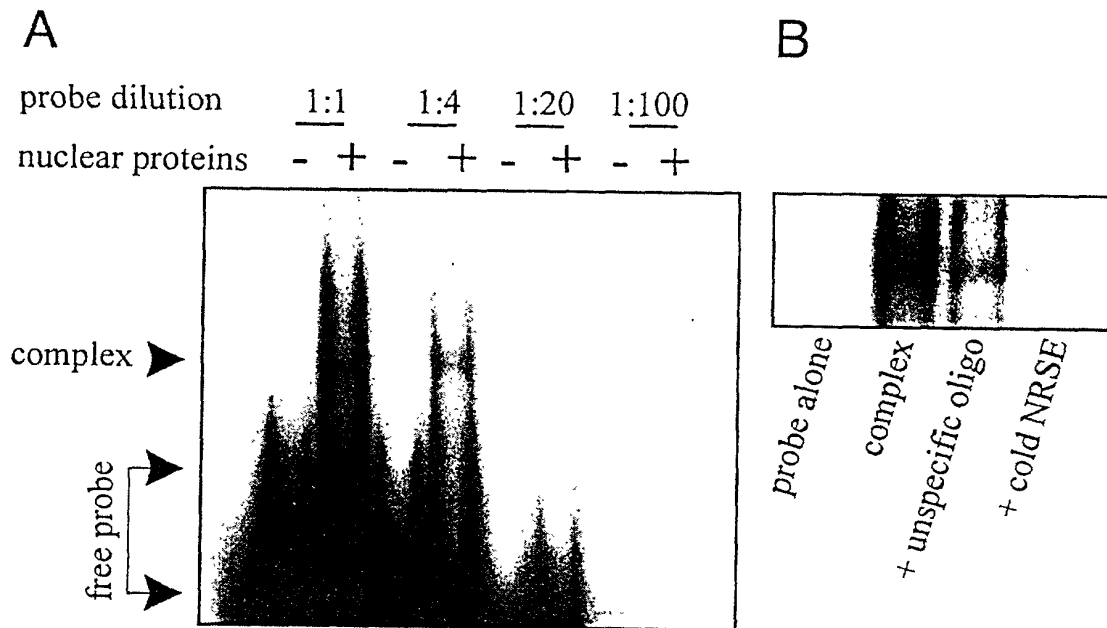


Figure 4



FOOTNOTES

Figure 5

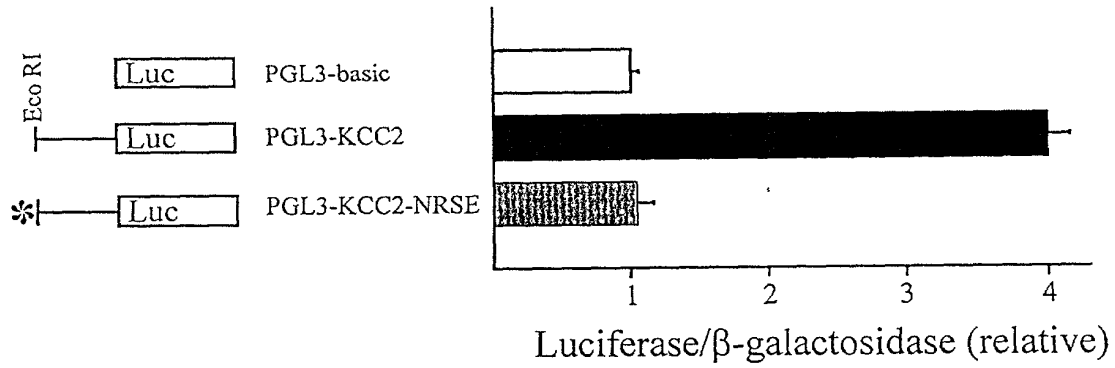


FIG 5

Figure 6

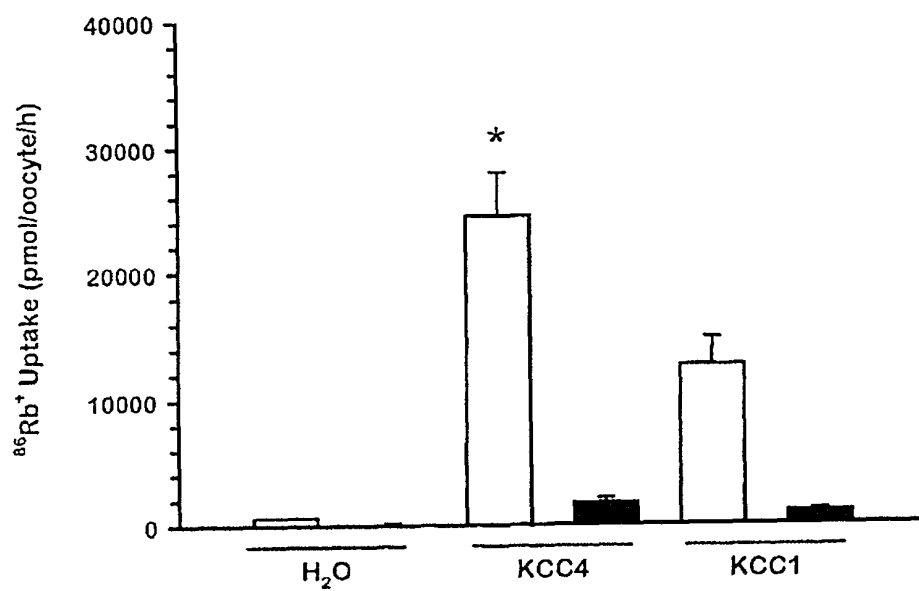


Figure 7

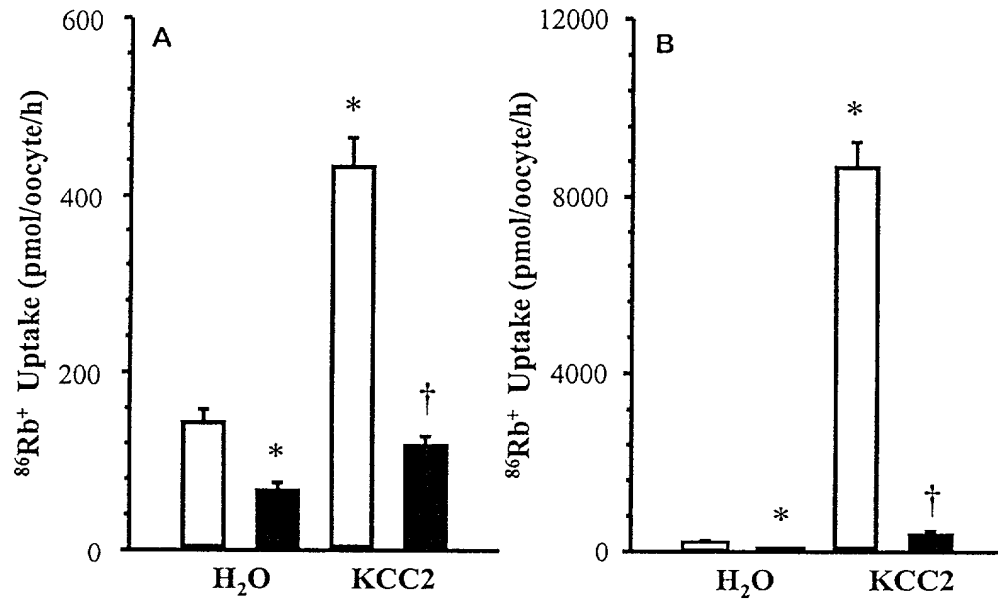
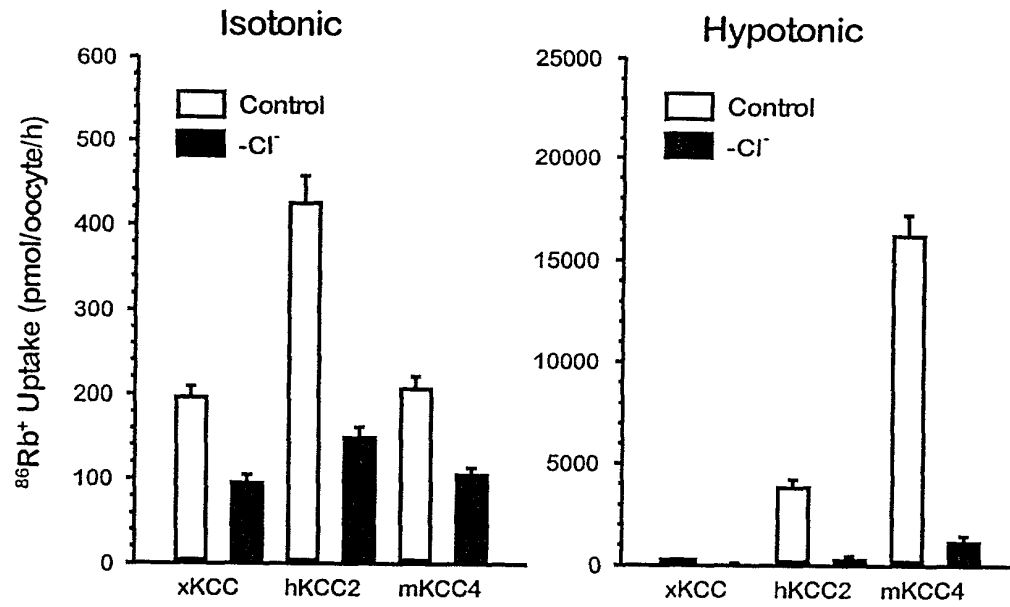


Figure 8



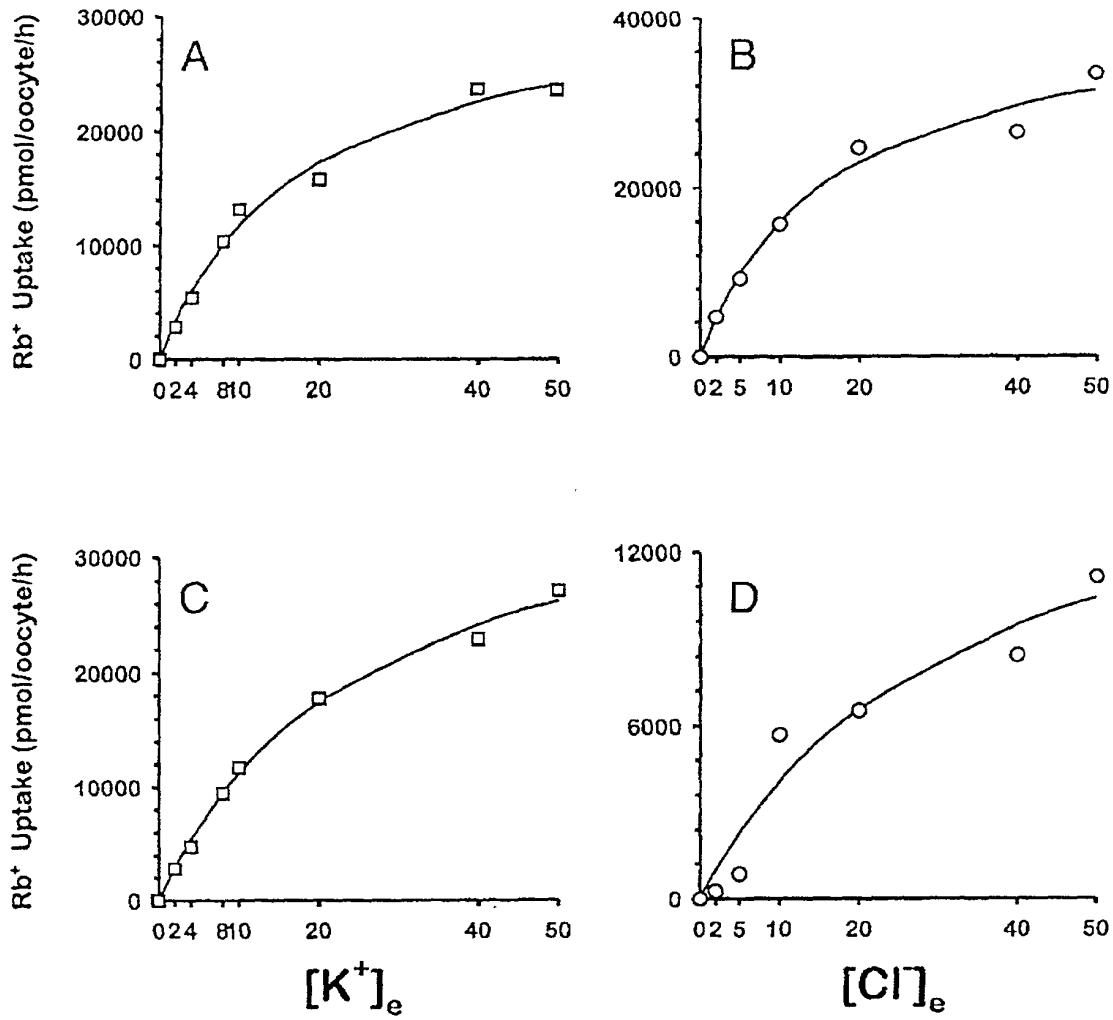


Figure 9

Figure 10

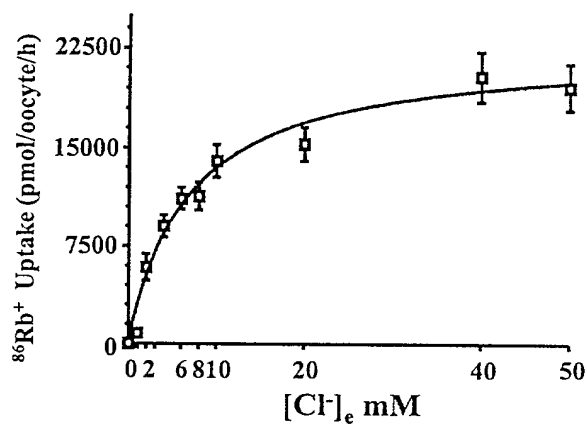
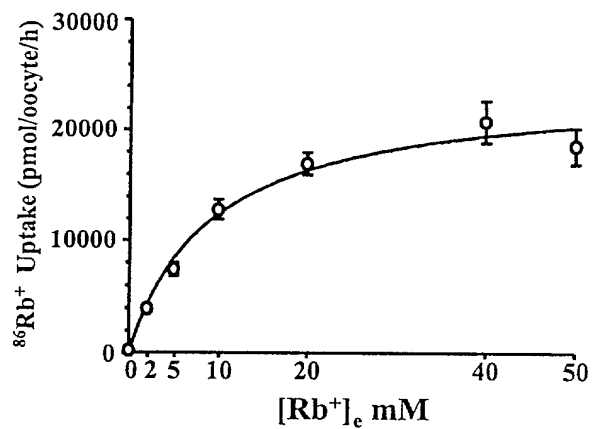


Figure 11

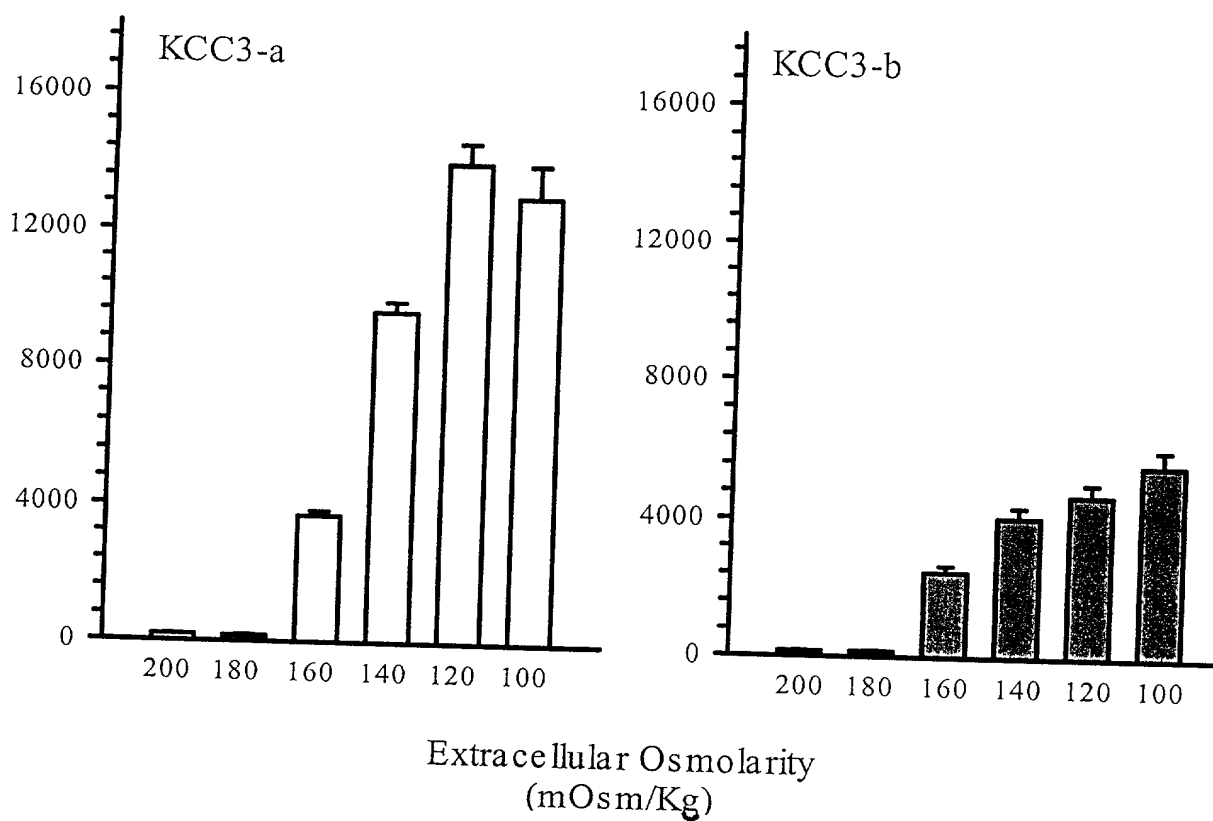


Figure 12

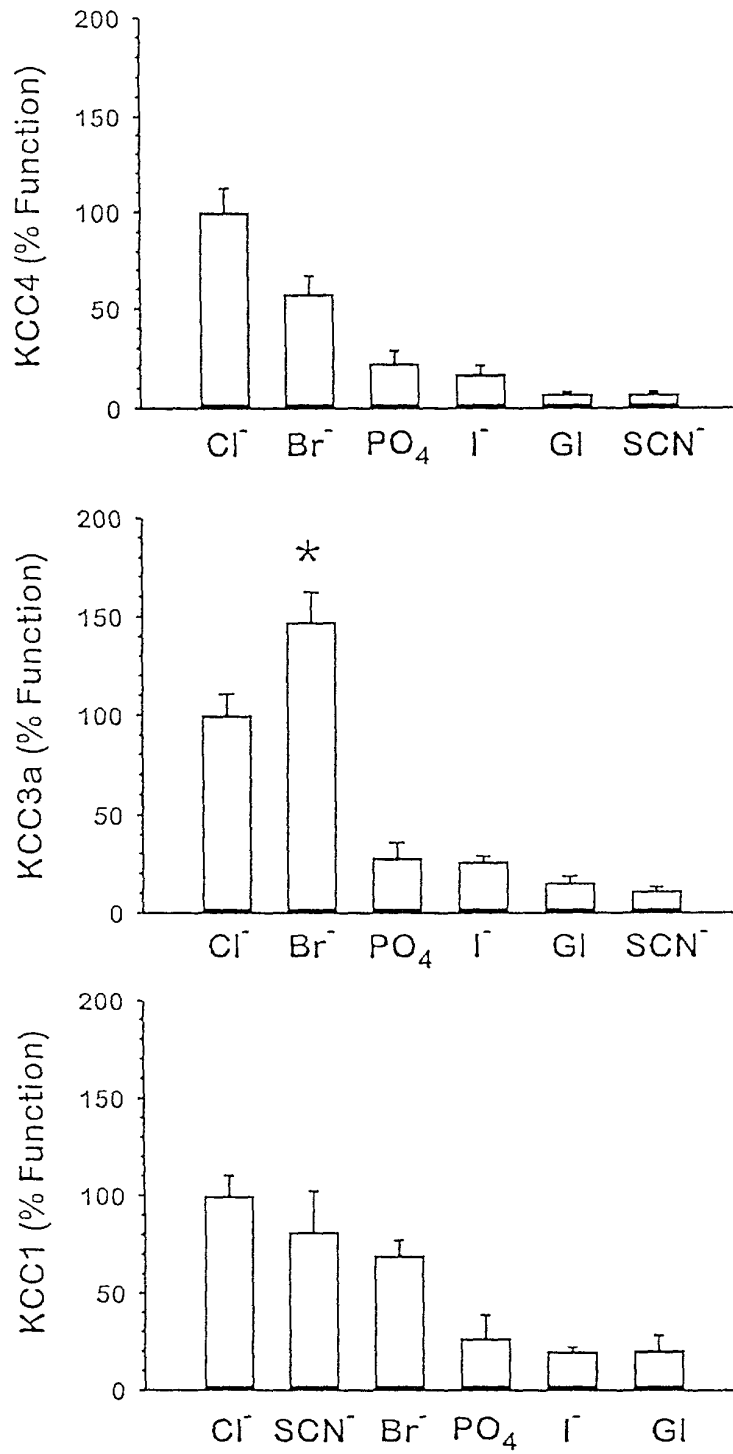


Figure 13

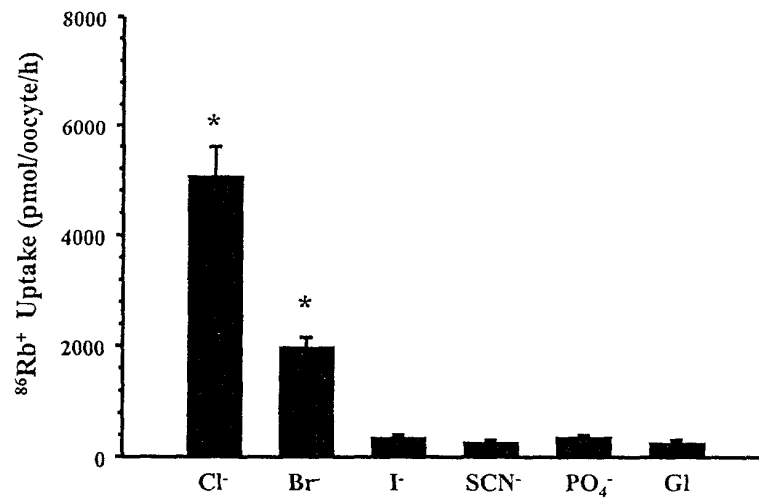


Figure 14

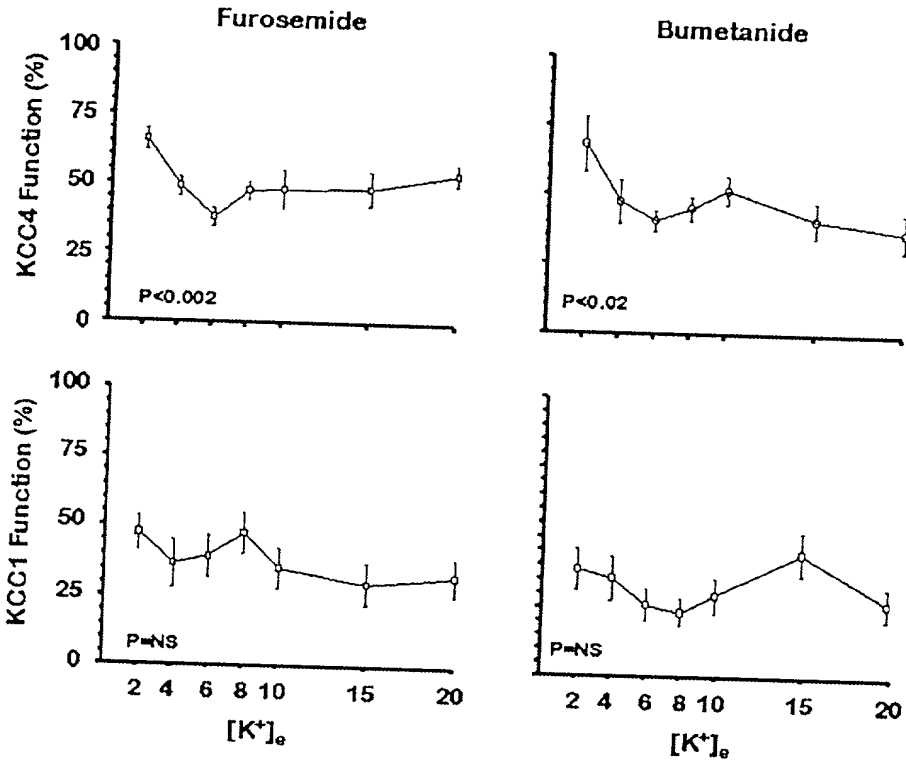


Figure 15

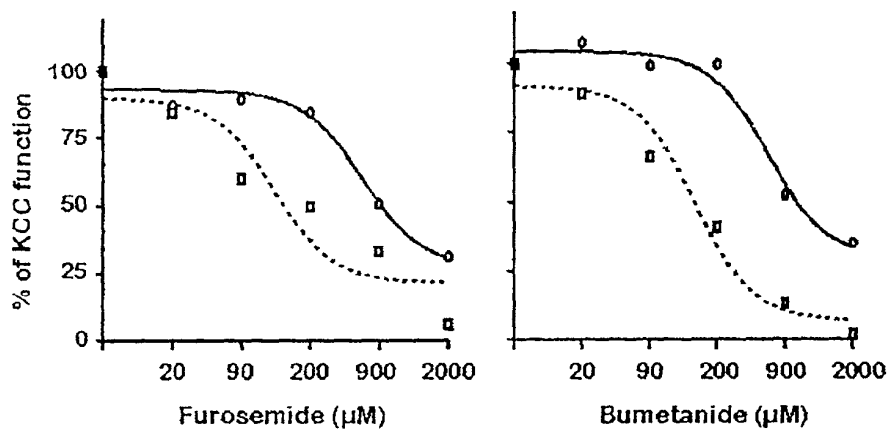
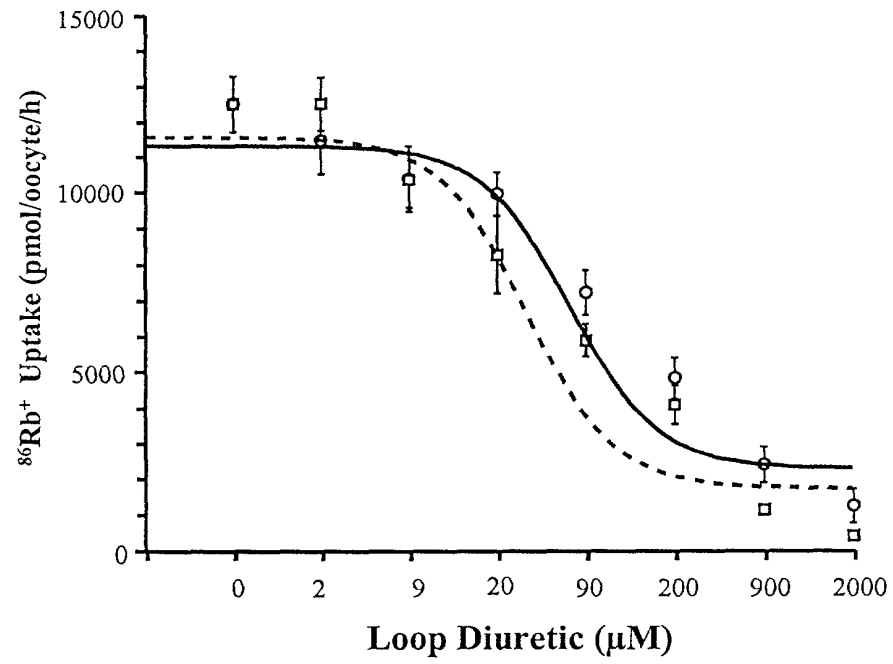


Figure 16



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Figure 17

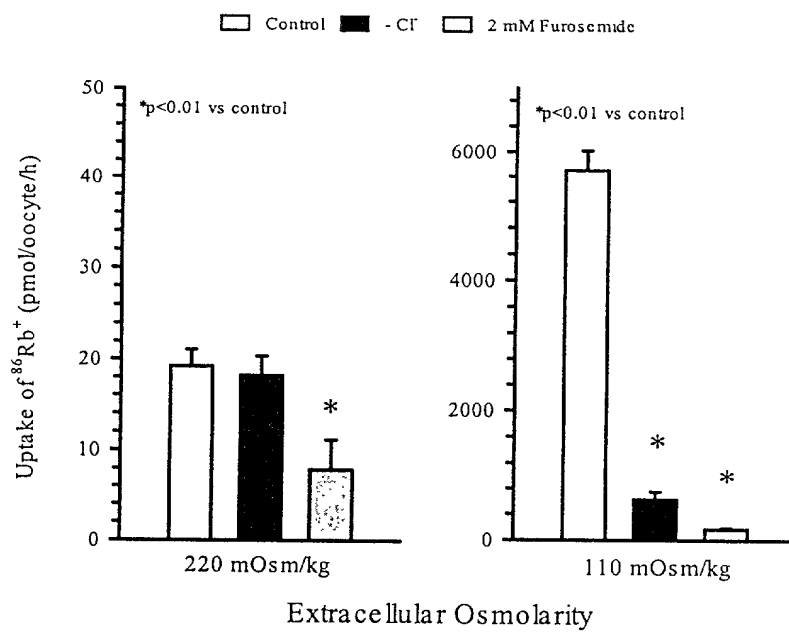
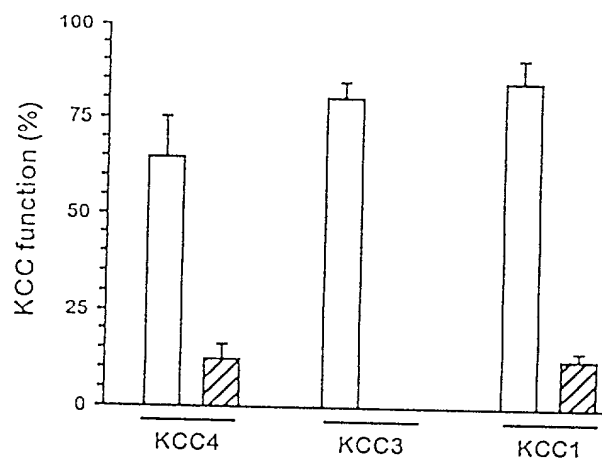
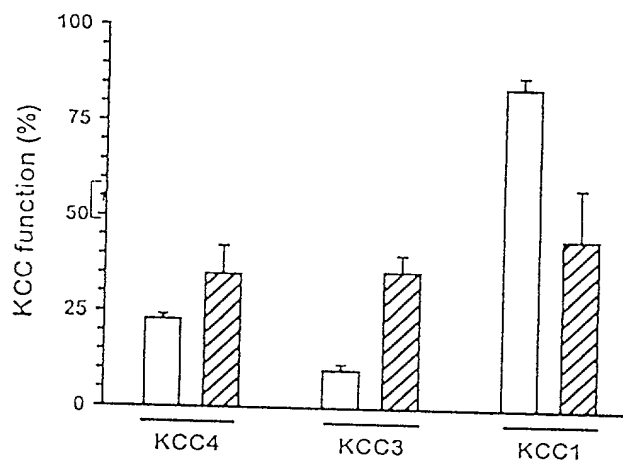


Figure 18

A) DIDS (100 μ M)



B) DIOA (100 μ M)



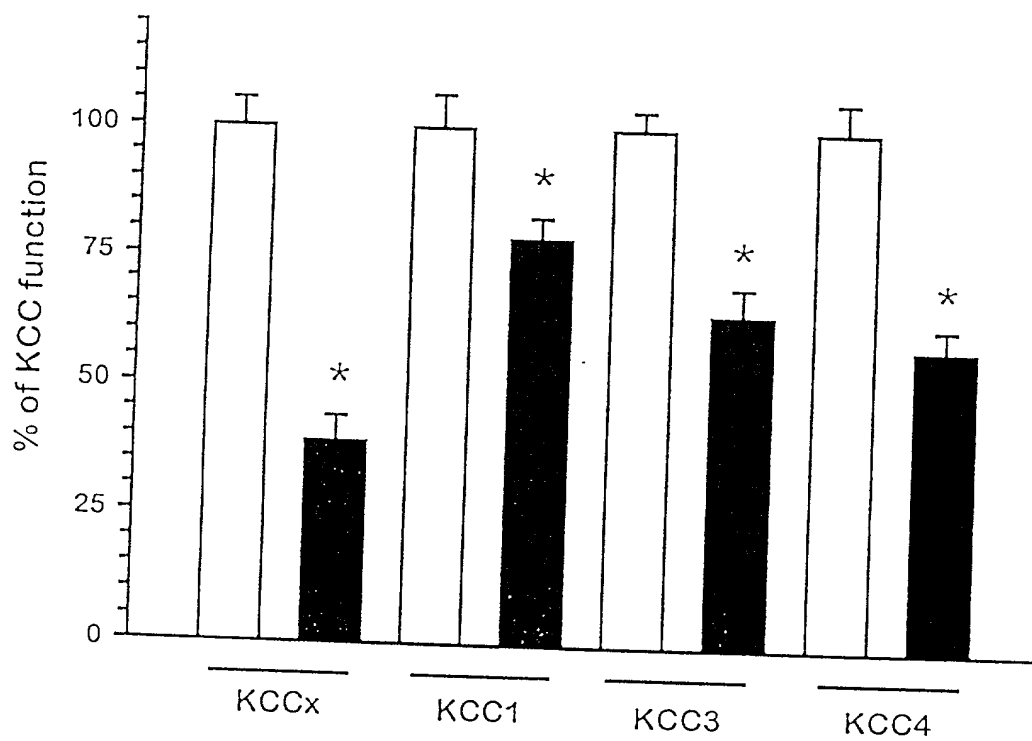


Figure 19

Figure 20

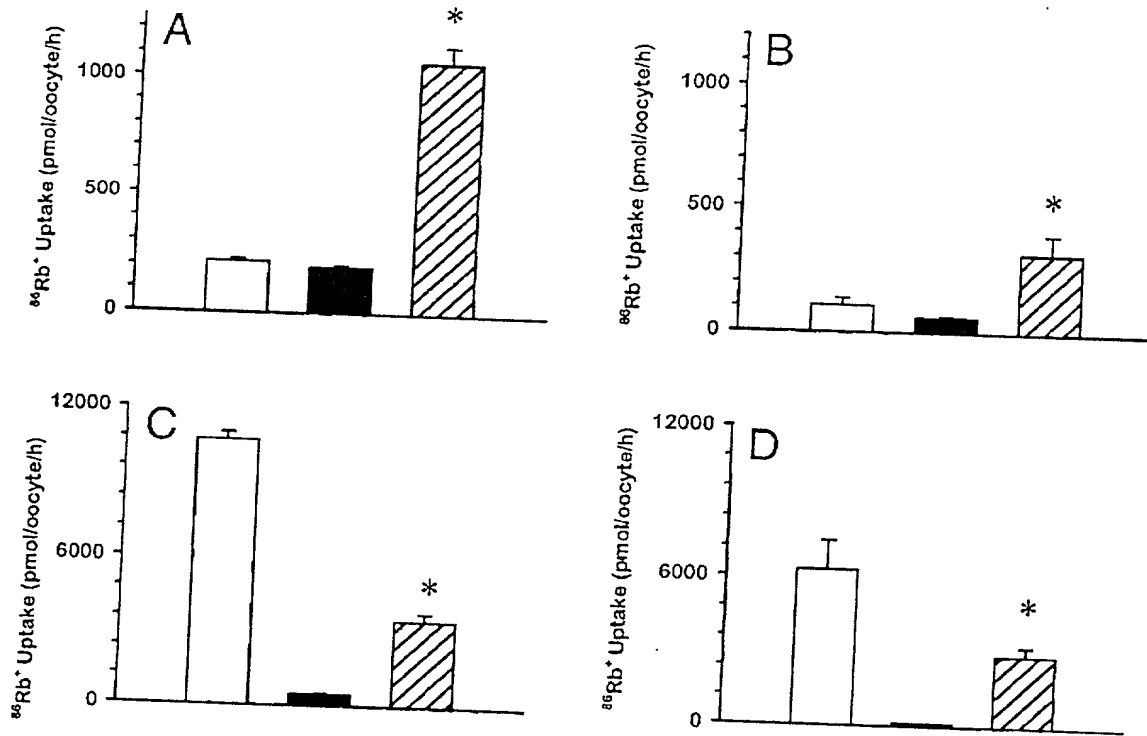


Figure 1 consists of four bar graphs arranged in a 2x2 grid, showing $^{86}\text{Rb}^+$ uptake (pmol/oocyte/h) for different KCC isoforms: KCC1, KCC2, KCC3a, and KCC4. Each graph compares Control (white bar) and HgCl₂ (black bar) conditions. The y-axis for KCC1, KCC2, and KCC3a ranges from 0 to 8000 pmol/oocyte/h, while for KCC4 it ranges from 0 to 12000 pmol/oocyte/h. Error bars represent standard deviation. An asterisk (*) indicates a significant difference ($p < 0.001$) between Control and HgCl₂ treatment for KCC2 and KCC4.

KCC Isoform	Control (pmol/oocyte/h)	HgCl ₂ (pmol/oocyte/h)
KCC1	~5400	~5200
KCC2	~6100	~3800*
KCC3a	~6100	~6300
KCC4	~11000	~6300*

* $p < 0.001$

Figure 22

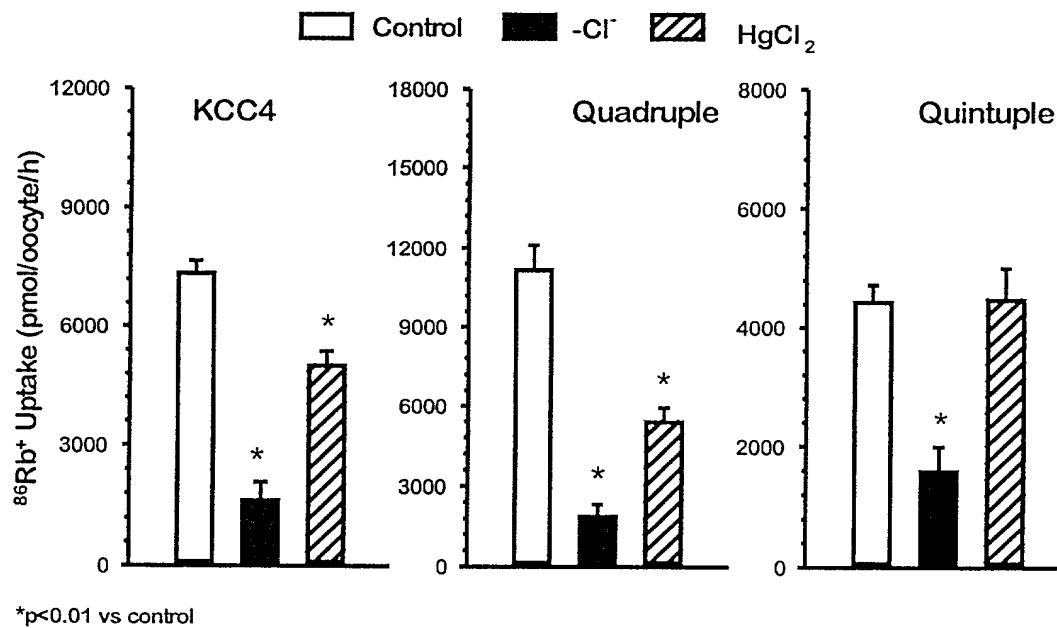


FIG. 4B 3463660

Figure 23

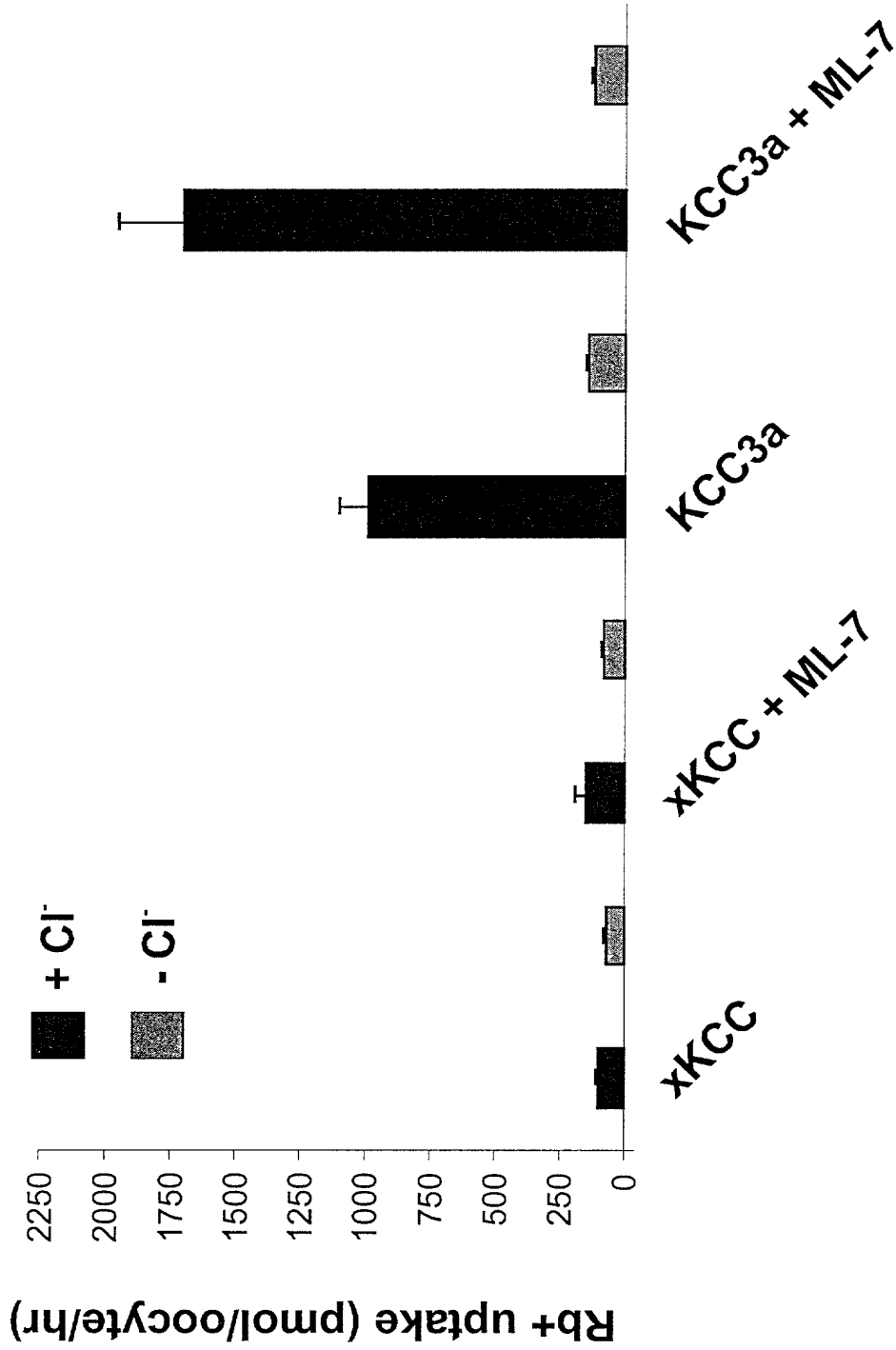
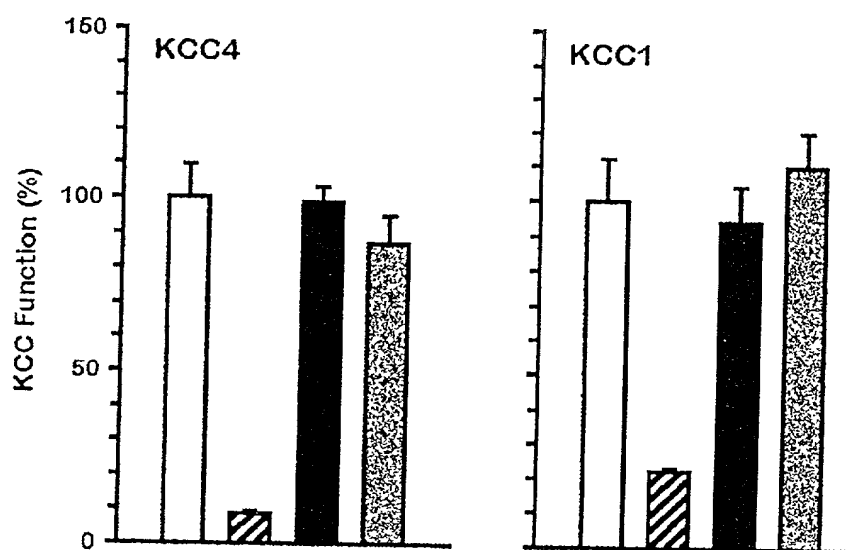


Figure 24



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Figure 25

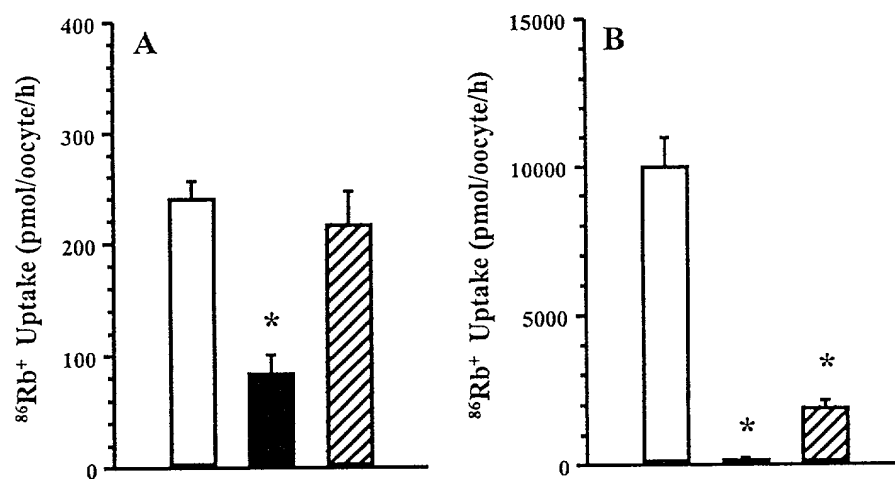


Figure 26

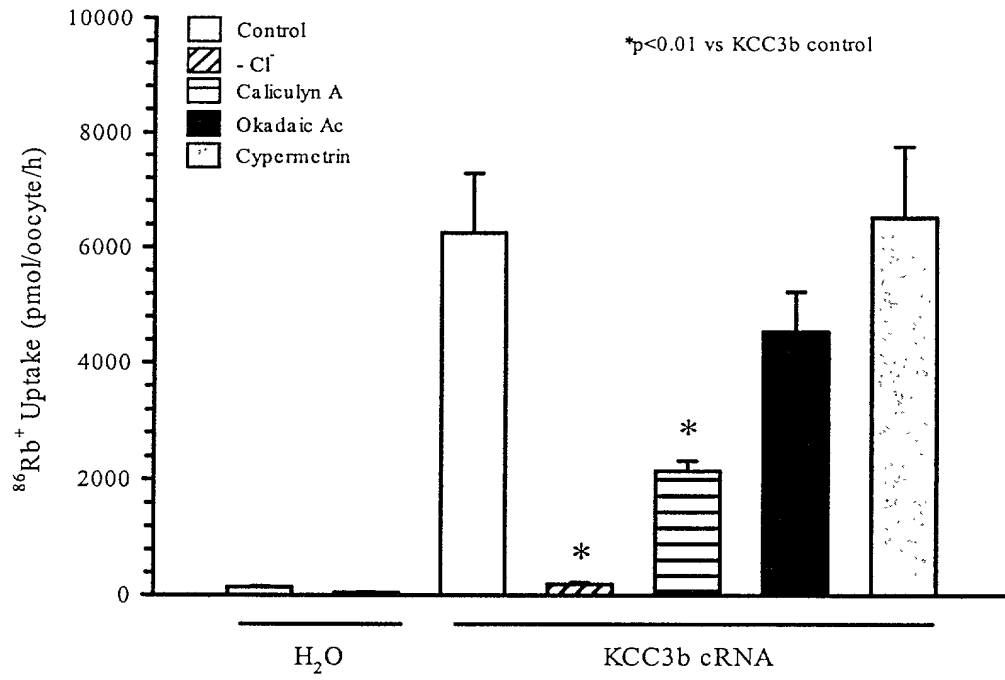
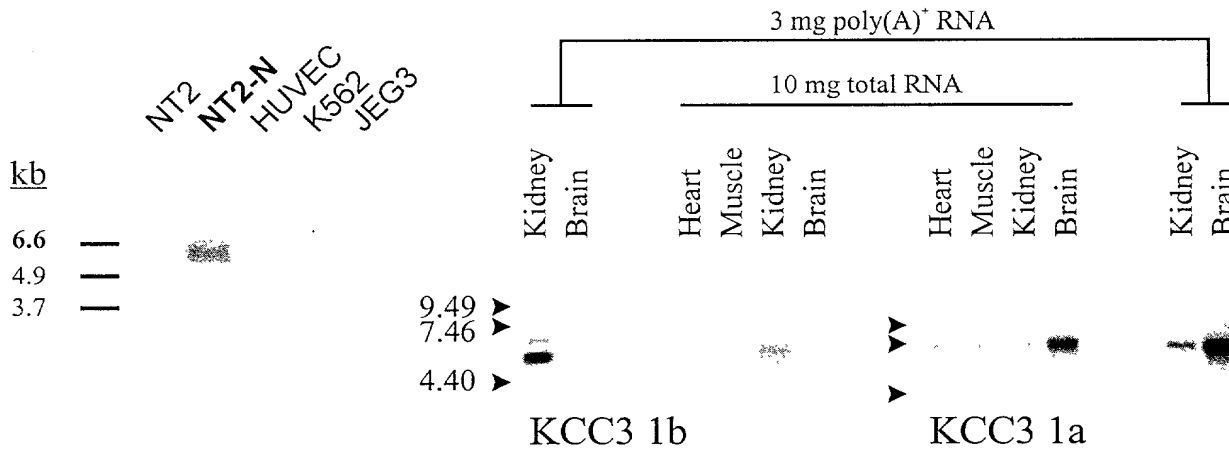


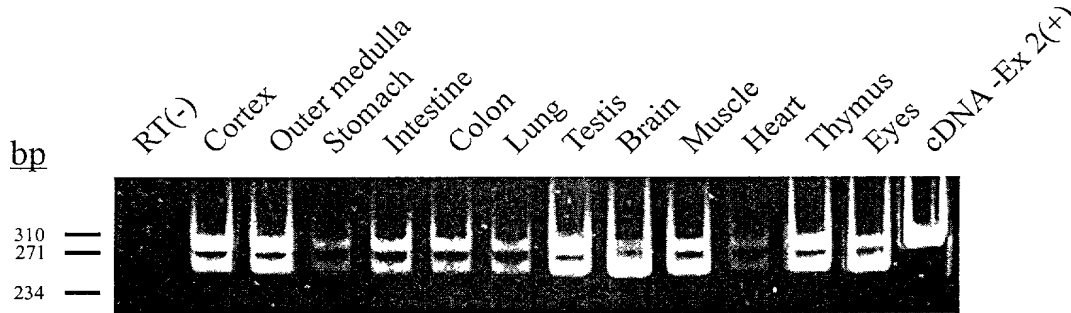
Figure 27

A) KCC2/NT2-N

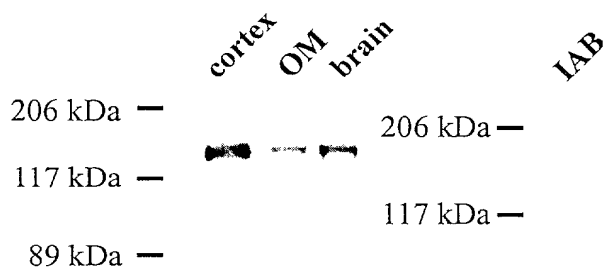
B) Mouse KCC3



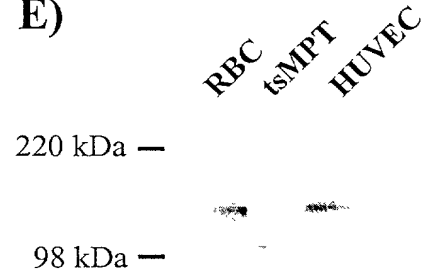
C)



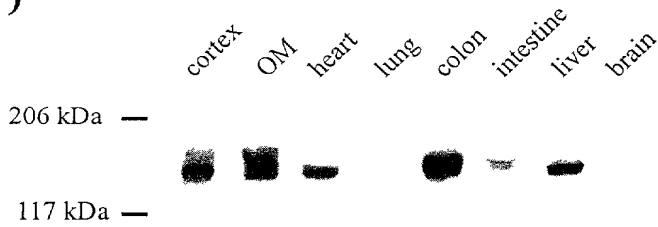
D)



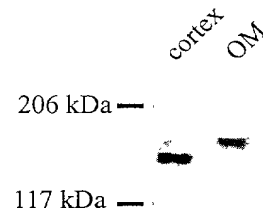
E)



F)



G)



H)

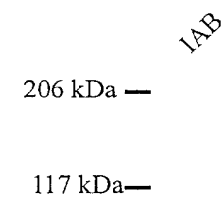


Figure 27 (cont.)

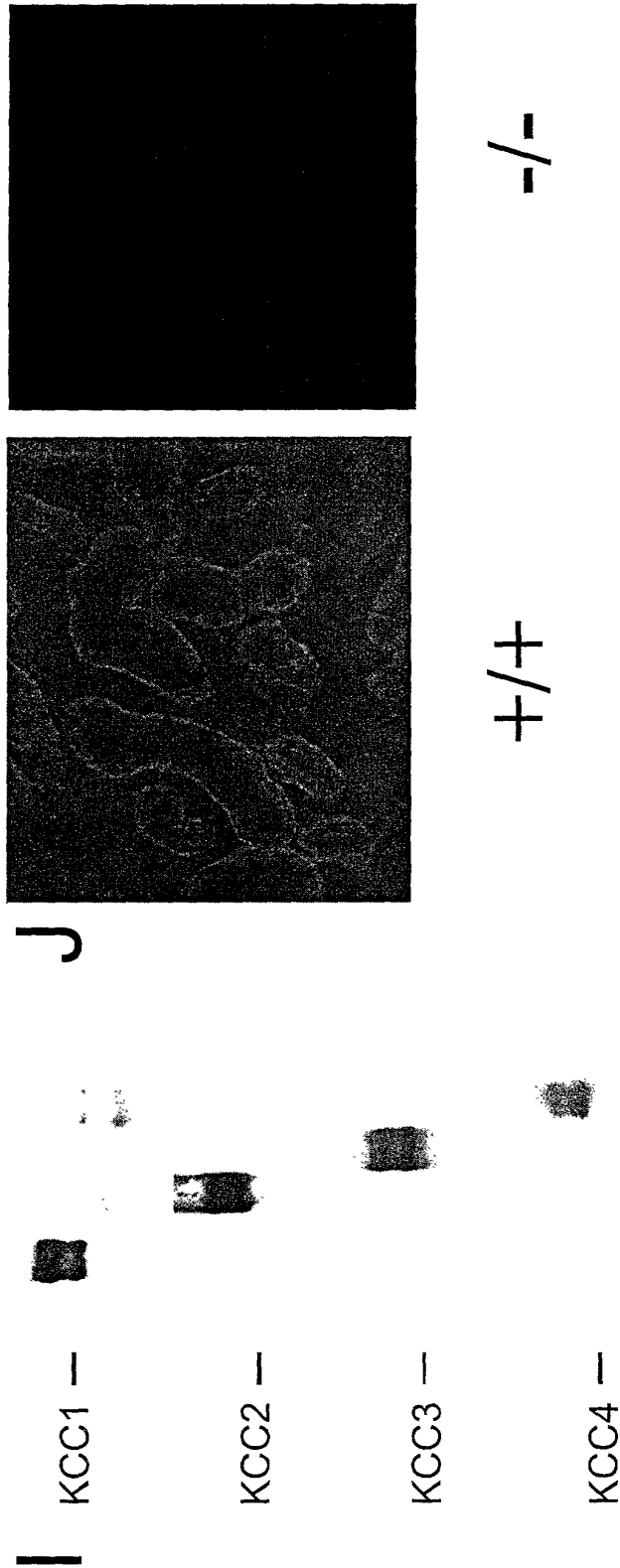
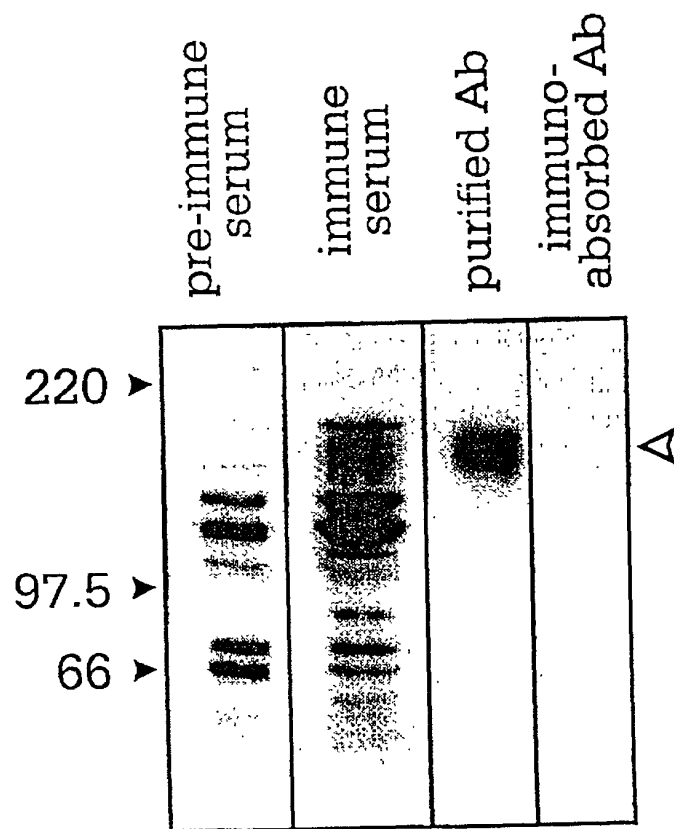


Figure 28



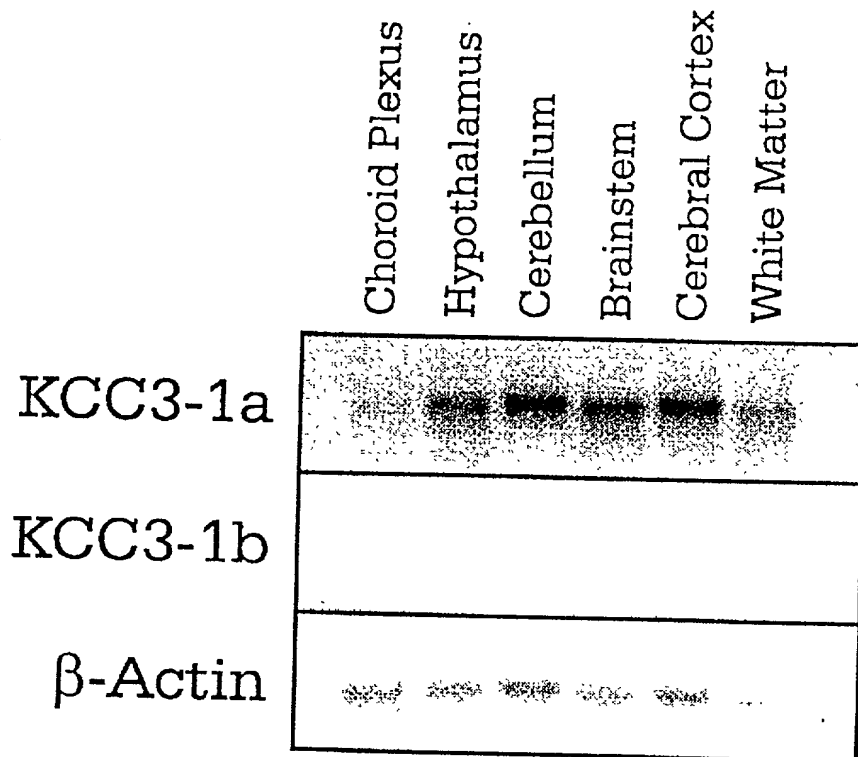
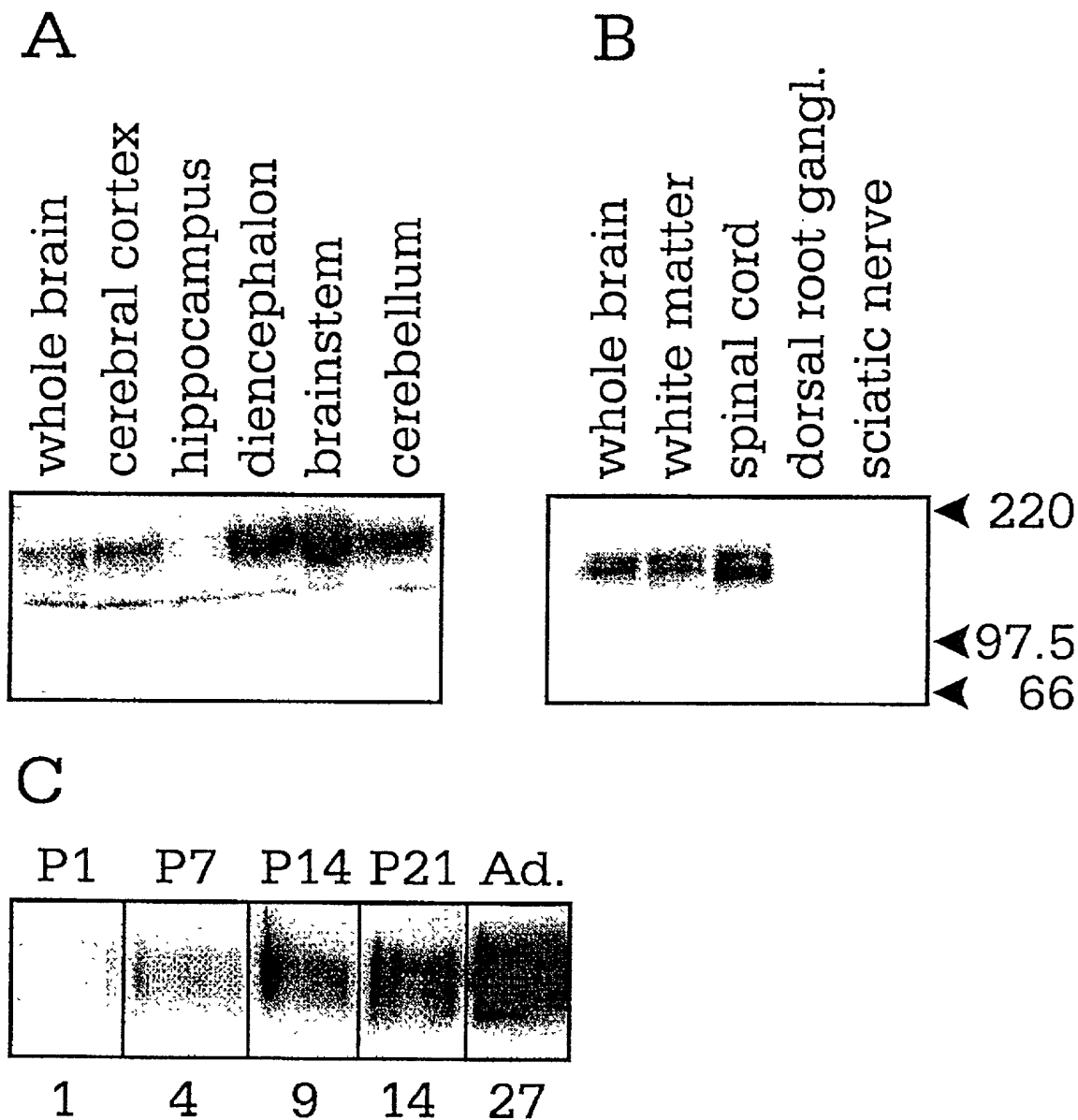


Figure 29

Figure 30



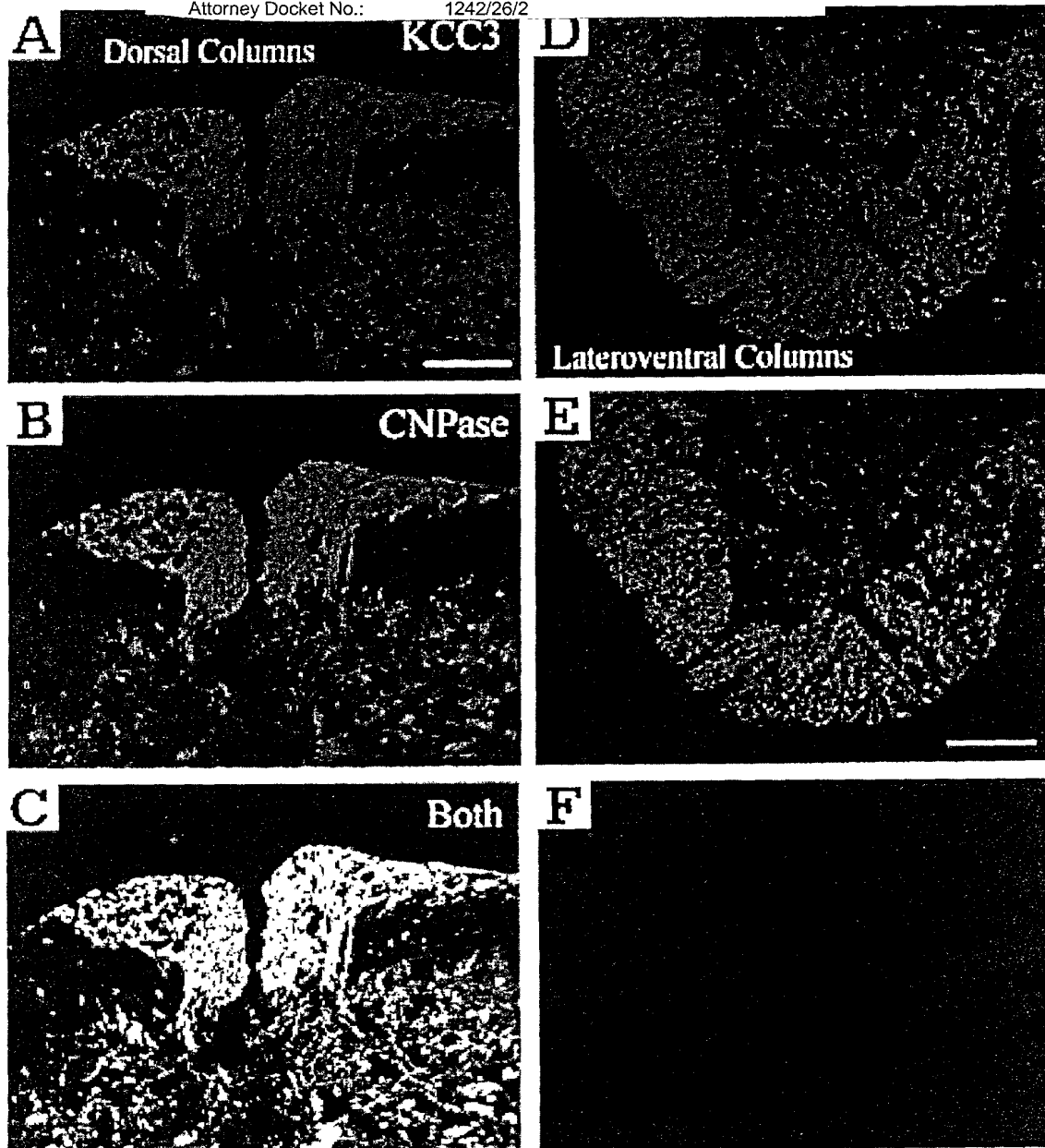


Figure 31

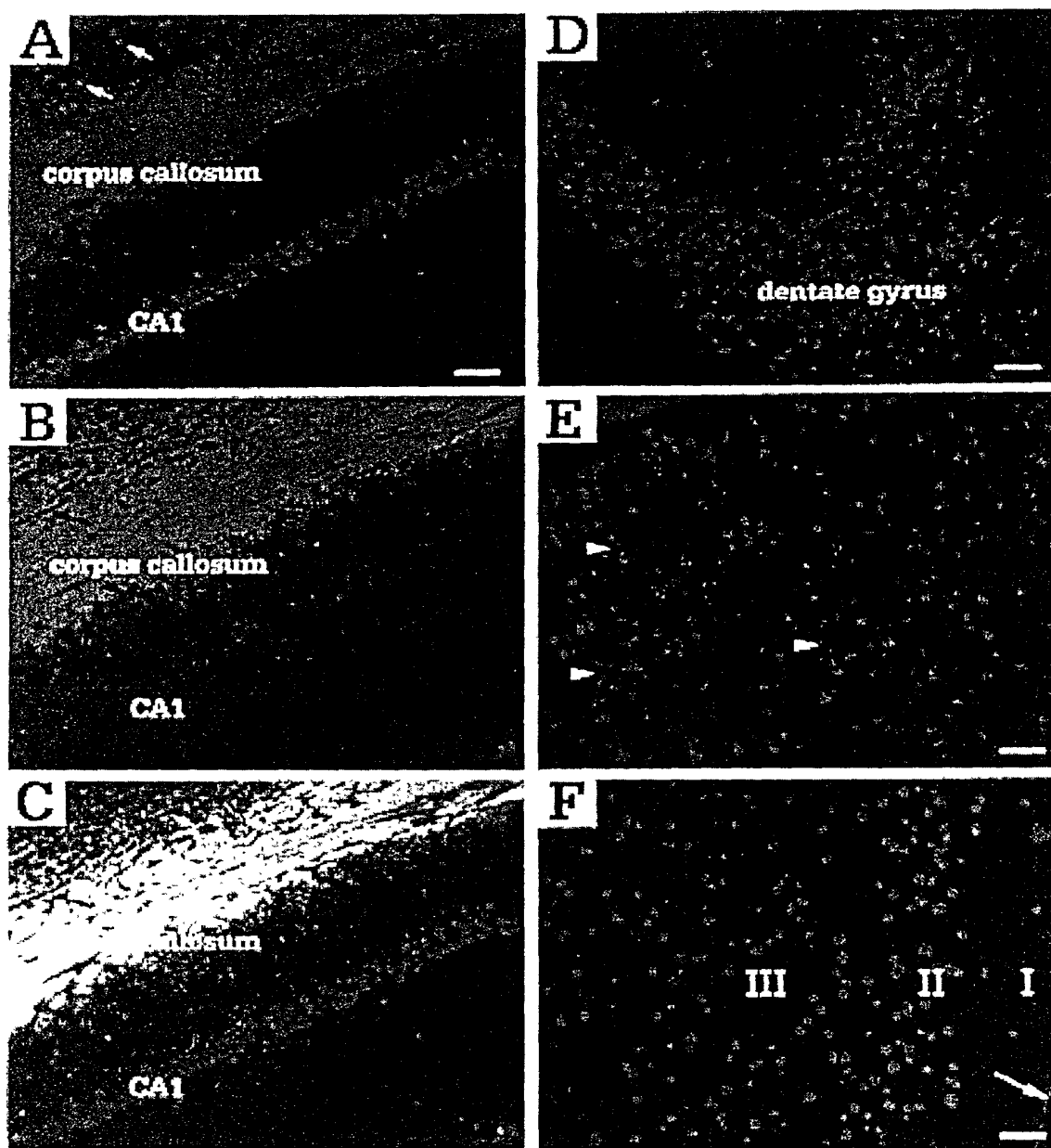
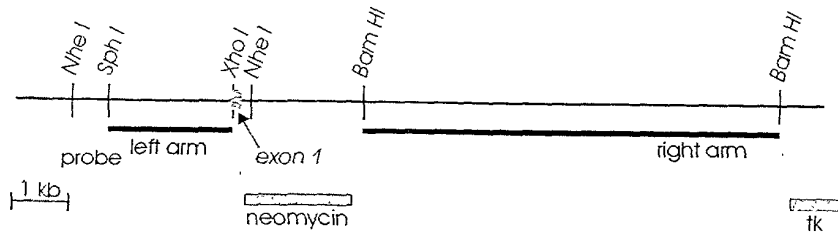


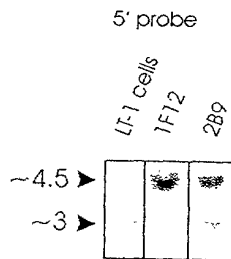
Figure 32

Figure 33

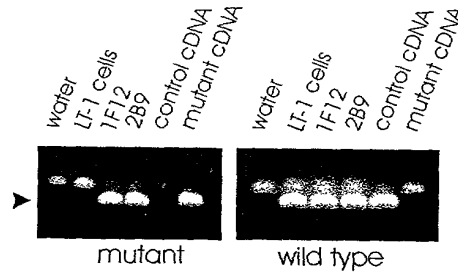
A) Targeting strategy



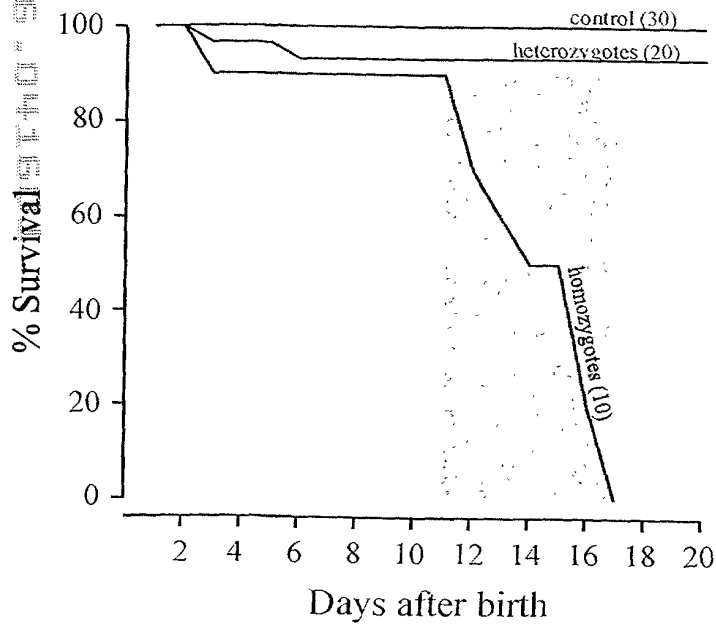
B) Southern



C) PCR



D) Life expectancy



E) Seizure disorder

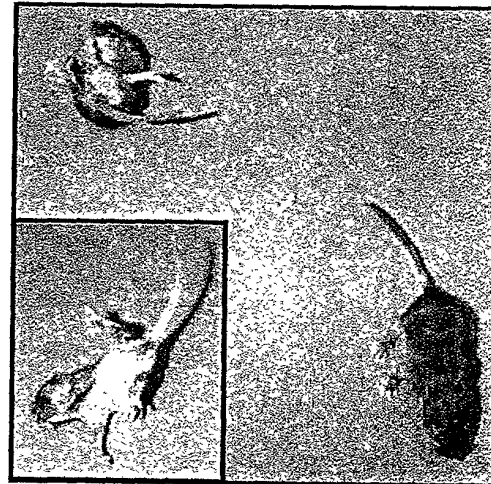


Figure 34

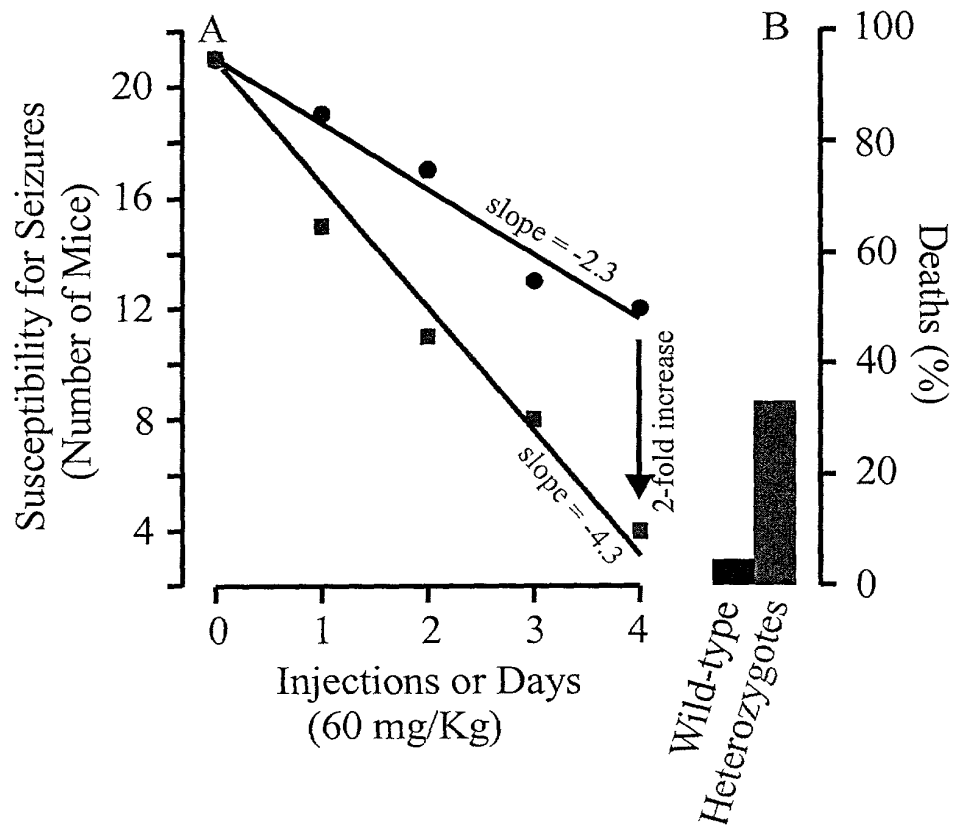


Figure 35

KCC3 Construct

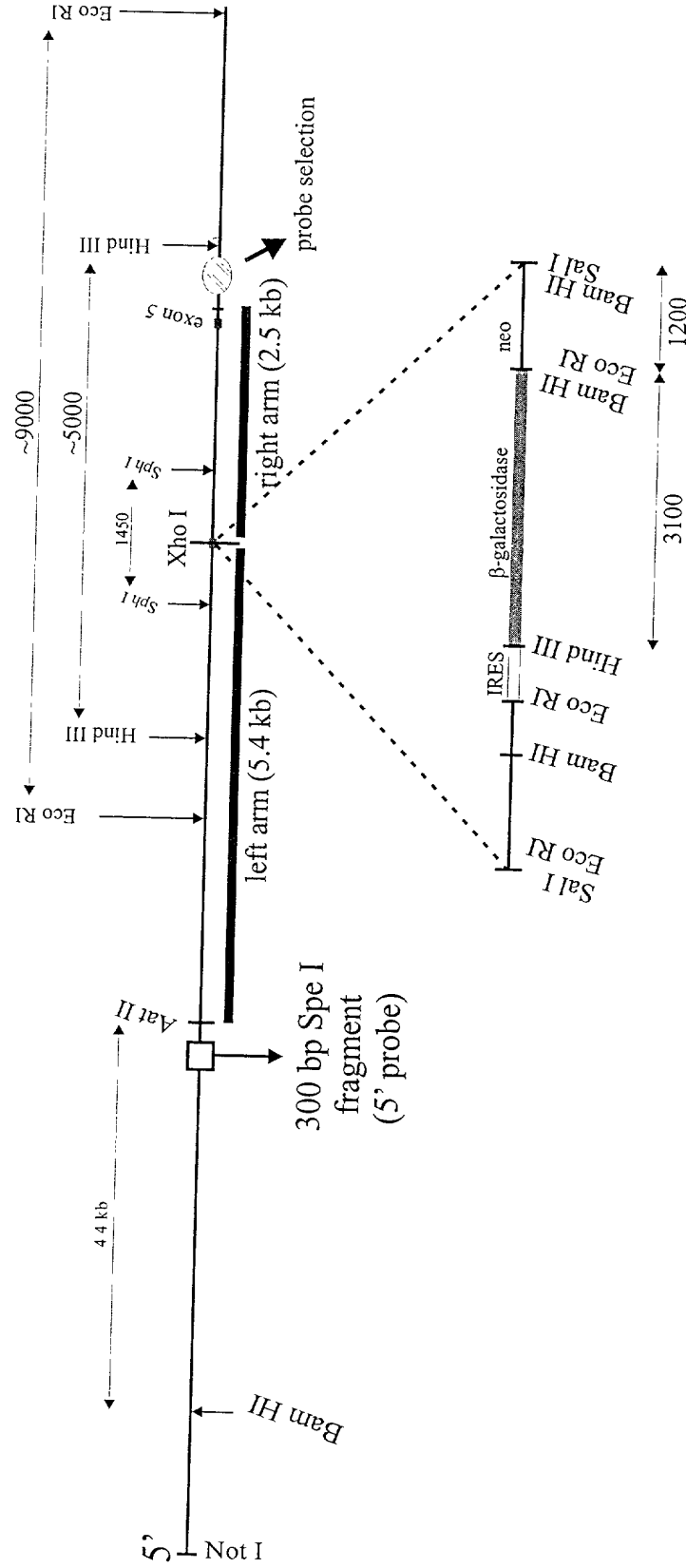


Figure 36

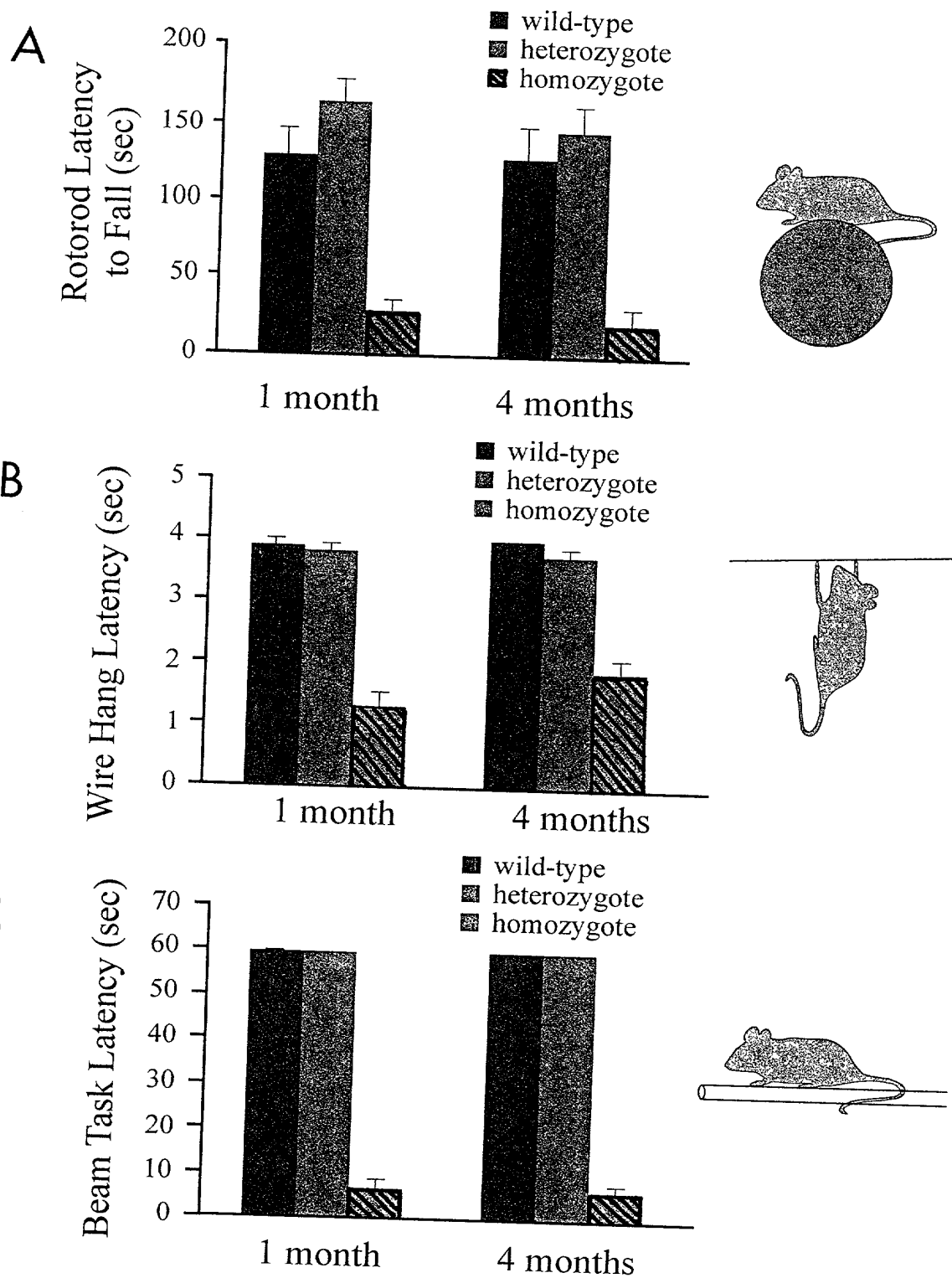


Figure 37

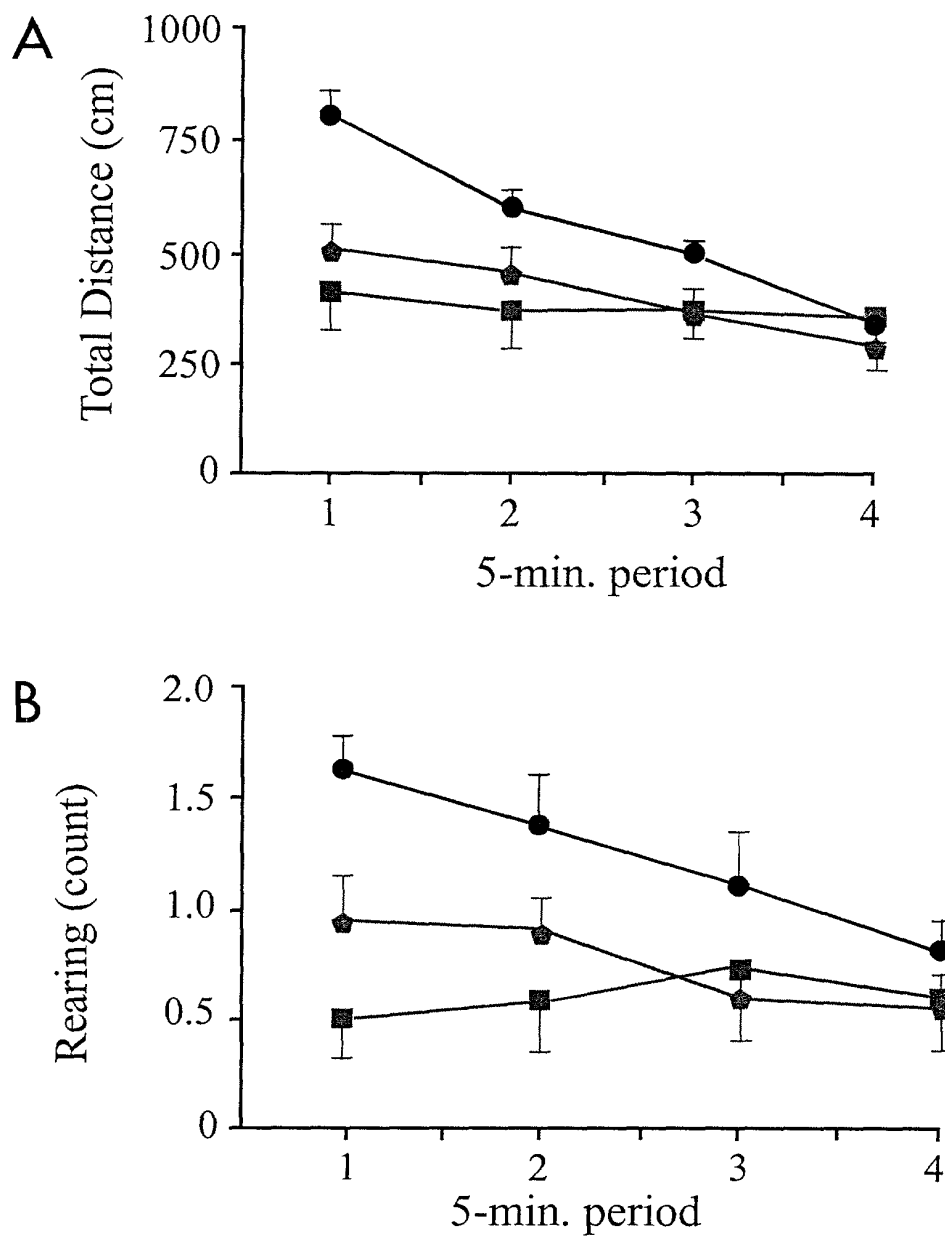


Figure 38

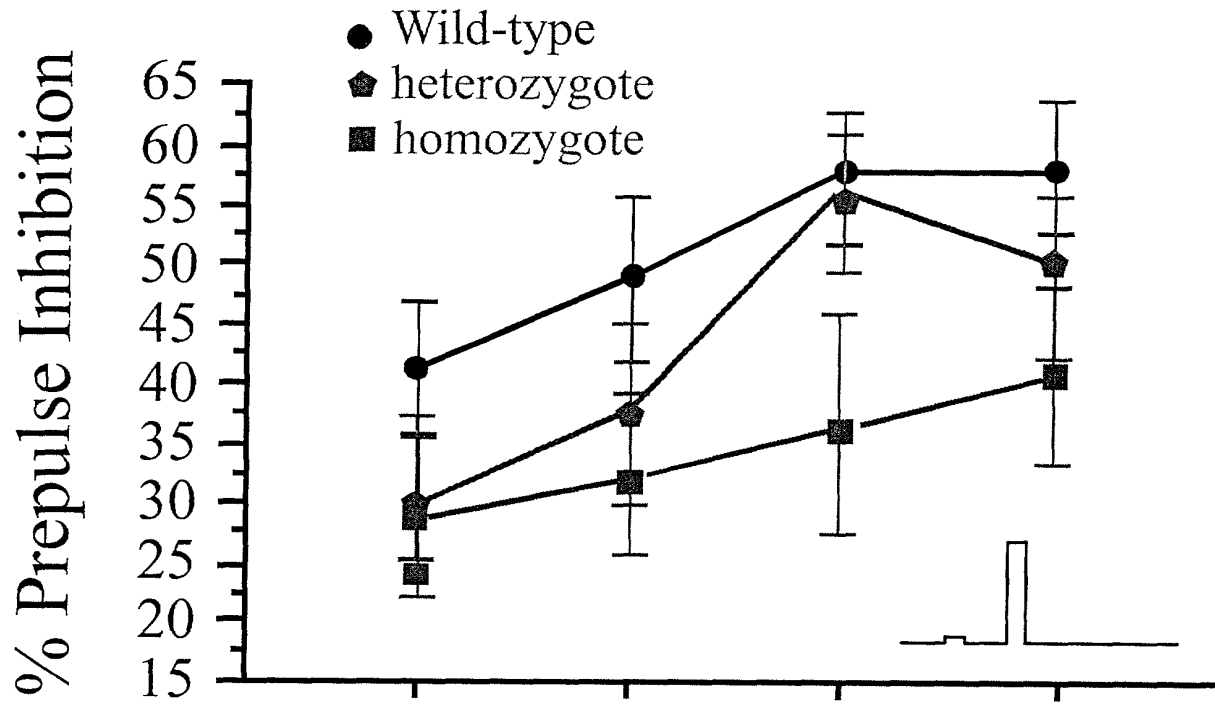


Figure 39

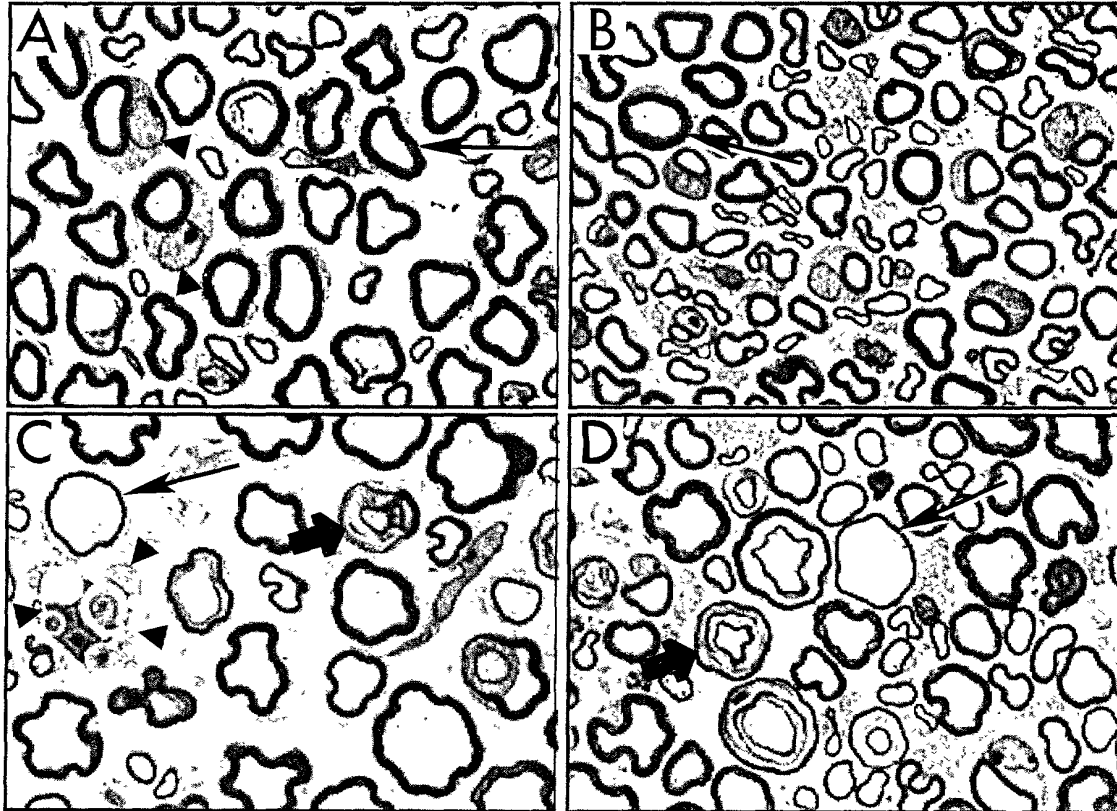


FIG. 39

Figure 40

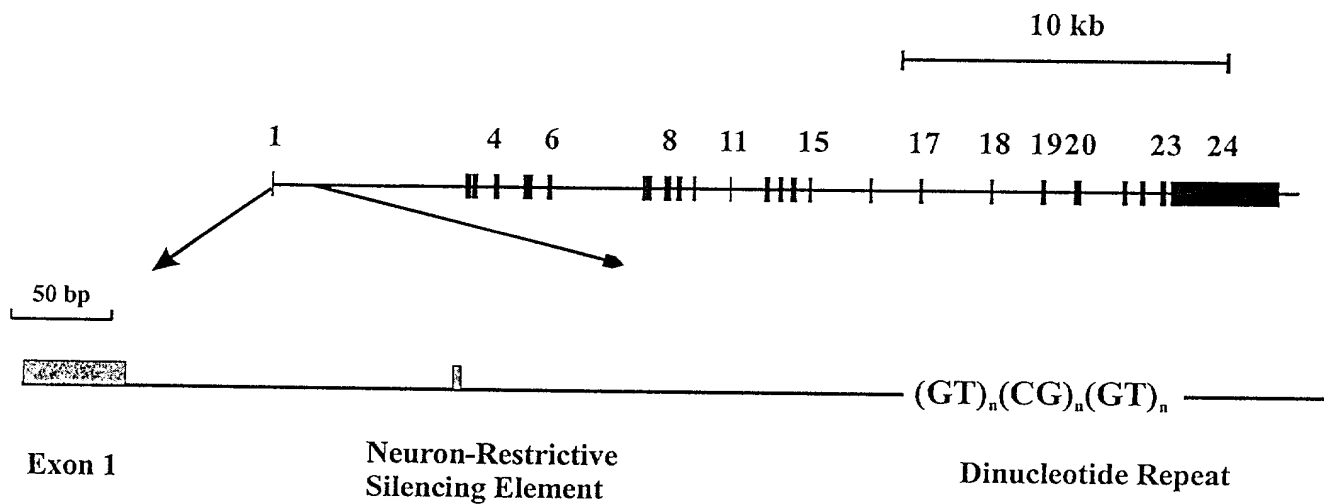


FIG. 40

Sequence of the hKCC2 dinucleotide repeat in several individuals:

Sample 1:

Allele A (GT)₁₈ (GC)₇ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 84

Allele B (GT)₁₆ (GC)₅ (AT)₁ (GT)₅ (GC)₁ (GT)₉ / Total = 74

Sample 2:

Allele A (GT)₁₈ (GC)₄ (AT)₂ (GT)₄ (GC)₂ (GT)₁₁ / Total = 82

Sample 3:

Allele A (GT)₁₆ (GC)₆ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 78

Allele B (GT)₁₄ (GC)₅ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 72

Sample 4:

Allele A (GT)₁₉ (GC)₆ (AT)₂ (GT)₄ (GC)₂ (GT)₁₀ / Total = 86

Allele B (GT)₁₇ (GC)₇ (AT)₂ (GT)₄ (GC)₂ (GT)₁₀ / Total = 84

Sample 5:

Allele A (GT)₁₇ (GC)₆ (AT)₂ (GT)₄ (GC)₁ (GT)₁₀ / Total = 80

Allele B (GT)₁₆ (GC)₆ (AT)₂ (GT)₃ (GC)₂ (GT)₁₀ / Total = 78

Sample 6:

Allele A (GT)₁₅ (GC)₆ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 76

Allele B (GT)₁₆ (GC)₅ (GT)₁ (AT)₁ (GT)₄ (GC)₁ (GT)₁₁ / Total = 78

Sample 7:

Allele A (GT)₁₆ (GC)₄ (GT)₁ (AT)₁ (GT)₅ (GC)₁ (GT)₁₀ / Total = 76

Figure 41

FIG. 41